

Page 1 of 12

## Electronic Bassinet Rocker

### **Abstract**

A bassinet which rocks in a side to side motion in either slow medium or fast rocking motion. The bassinet is controlled by a motor and microchips to create the movement. The bassinet will no longer need the movement of ones hand, as the motor and microchips will control it's rocking motion.

---

Inventors: **Vanita Antonia Williams** (8419 9<sup>th</sup> Way SE Olympia, WA 98513)

Application Number: 60/461,620

Filed: March 25, 2003

---

*Claims*

---

I claim:

1. The bassinet will be an electronic device, which will rock in a side to side motion controlled by a motor, microchips and wires.
2. The bassinet will be battery operated and will also have a plug wire, so if the battery dies the wire will just need to be plugged into the wall; the battery is rechargeable and works up to 24 hours, possibly longer depending on the use.
3. The bassinet will have a base, located on the top end center of the bassinet, which will have the control settings; these setting will be controlled by microchips, connected to wires and some wires connected to the motor, the base setting will have a remote control attached; the base settings include
  - a) slow, medium and fast rocking motion, which will be controlled by microchips, the motor and wires.
  - b) slow, medium and fast vibration, which will be controlled by microchips and wires, which will have some connection to the motor.
  - c) a timer, which goes up to twenty minutes, which will be controlled by microchips, wires, which will have some connection to the motor.
  - d) 8 classical music selections, including 2 soothing sounds, such as water moving or the wind blowing; a total of 10 selections, which will be controlled by microchips and wires, there is a button to the left of the 10 selections called selections, which will let the parent choose which songs they want to hear; the right side of the 10 selections called continuous play, which will let parent play the selected songs or sounds or all the songs and sounds over and over.
  - e) a tape deck, which will include the eject, pause, stop, play, rewind, fast forward, and the tape turn over button, which will be controlled by microchips and wires.
  - f) 4 speakers, which will bring sound from the classical music selections and the tape

deck, which will be controlled by microchips and wires.

g) a volume control, which will control how loud the classical music selections, and the tape deck will output through the speakers, which will be controlled by microchips and wires.

h) the selection button to listen to either the tape player, the classical music/sounds selections or just turning both off, which will be controlled by microchips and wires.

4. The bassinet will have an integrated microphone on the top part of the bassinet, where the baby will lie their head, so when speaking, the microphone will pick up the baby voice for recording.

5. When the timer of the bassinet is set, the slow, medium or fast button can be selected to control the movement speed of the bassinet, if the timer is not selected, the bassinet will not rock, once the timer time is selected and a rocking selection is pushed the bassinet will rock, once the timer time has expired, the bassinet will stop rocking.

6. The vibrations of the bassinet vibrates at slow, medium and fast vibration motions, which is controlled by a microchip that will cause it to vibrate, some wiring will be attached to the rocking microchip to send a signal that the bassinet will not rock if the vibrator is on medium or fast, if the parent chooses to have it rocked while the vibrator is on, the parent must set it on slow vibration movement or rock it manually if they prefer medium or fast vibrations.

7. There will be a storage area to keep the baby items in, which will have shelves to hold the items in place, the shelves will include 4 round storages to hold the baby bottles, 2 bigger slots; one to hold the baby wipes and the other to hold the baby diapers and 1 in the center of all of them, which will be bigger to hold the baby blankets or other usage, these shelves are detachable for cleaning and are made of plastic.

8. On the bottom sides of the bassinet will have a curtain that will be attached to Velcro and a button to hold the things in the bottom of the bassinet secure, that are outside of the storage compartments.

9. The motor is the main function of the bassinet, which will have wires wrapped

around it and will be wired through the front side of the main base of the bassinet and connect to the bottom of the base functions of the bassinet; the wiring will be attached to

- a) The motor wire will be connected to the fast, medium, and slow rocking control, the fast medium and slow vibration controls and the timer.
- b) The timer will be connected to the fast, medium, and slow rocking motion.
- c) The fast, medium, and slow rocking motion will be connected to the fast and medium vibrations.

10. The bassinet will have 3 hanging toys that light up, this will be attached to the canopy.

11. The bassinet will have wheels on the bottom, which will need to be manually adjusted.

---

#### Field of Invention

---

This invention relates to the current bassinets, but with the improvement of the hands free rocking motion. The hands free rocking motion is a benefit to the parents who have lack of sleep and may fall asleep while trying to put their baby to sleep. The timer is there, so if parent gets side tracked or may fall asleep, baby wont be rocking for a long period of time. This bassinet is related to the tape players that are being used to record ones voice and play back, along with the play, fast forward, rewind, pause, stop, eject and tape turn over functions.

The invention which will be a benefit for the parent who can record their voices, sing or record their baby's voice and play it back for the baby. The baby will feel at ease because if baby is in the bassinet and parent is a couple of inches away, baby will still hear the parents voice and feel at ease while lying down. This is also a benefit when the parents has something to do around the house and want to put baby to sleep.

The curtains of the bassinet is one that would be different, the previous bassinet would use a basket like form to hold everything inside. Those previous bassinets do not have the storage compartments and the baskets cannot be moved like the curtains can to

make it easier for the parent to grab the items placed on the bottom of the bassinet.

U.S. Pat. No. 4,891,852 has a similarity when it comes to the rocking motion of the bassinet, along with a hood or canopy over one end of the bassinet. This bassinet doesn't have the current features of the automatic rocking motion with a timer, doesn't have the curtains or shelves used in this invention, doesn't have a microphone or a tape player along with it. This patent presents that there is rocking motion 2 ways and sits on four legs, this invention only rocks one way and doesn't stand on 4 legs.

U.S. Pat. No. 5,694,655 has a similarity when it comes to the rocking and the mattress assembly and the lock on the rocking method. This patent shows there is a handle to lock the rocking, but doesn't have the electronic signal to lock the rocking. This invention presents that the timer will lock the rocking for safety reasons. This patent shows a form of collapsing, which this invention does not present.

U.S. Pat. No. 6,470,516 has a similarity of the rocking motion of the bassinet and the baby sleeping area. This patent has a canopy or hood on one end to cover the baby head, along with the insert where the baby will be sleeping, but the frame of the bassinet beneath that is formed differently. This patent doesn't show the automatic rocking motion with a time, but does show the rocker can be unfold, which is not a feature of this invention.

U.S. Pat. No. 5,739,452 has a similarity to the recording of ones voice through the microphone. This patent is a karaoke apparatus that picks up a singing voice sound, which is similar to the microphone used for this bassinet, except doesn't have the mini wireless microphone.

U.S. Pat. No. 4,396,957 has a similarity to the tape deck being used on the bassinet. This patent is a tape control system to record through blank or unrecorded spaces, which is similar to the tape player used for this bassinet invention. This patent is not a compact tape player, which this bassinet invention tape player is, but will not have all the features this patent has.

## SUMMARY OF INVENTION

The motor will be attached to the bottom middle of the bassinet to create the rocking movements. The tape player is to create ones voice to play back to the baby. The

music selection box is there for the baby to listen to music and 2 soothing noises. The microphone is to record baby if parent wants to record the baby's voice while baby is playing in the bassinet; this can be used for baby to listen to himself/herself talking, which intrigues babies. The mattress is formed at two inches, a little thicker than the normal for comfort for the baby. The timer is there to keep track of how long the baby is rocking for. The vibration is there to soothe the baby while lying in the bassinet. The hanging toys are there to help baby get strength in the arms and help the baby's eyesight improve. The curtains were selected so parent can open and close the bottom with ease to make it easier to grab the items needed. The shelves are there for the blankets; baby wipes; diapers; bottles or anything else placed down, so the rocking won't make the objects move out of place. The turning wheels are there so the bassinet can move from room to room.

#### BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1A is a diagram of mattress holder, the side view.

FIG. 1B is a diagram of mattress holder, the top view.

FIG. 1C is a diagram of mattress holder, the bottom view.

FIG. 2 is a diagram of the two inch mattress.

FIG. 3 is a side diagram of a cloth material that will be inserted into FIG. 1A, FIG. 1B, AND FIG. 1C.

FIG. 4 is a diagram of two lightweight metal bars that will be inserted into FIG. 5.

FIG. 5 is a diagram of a the curtain that will be placed on both sides of the bassinet.

FIG. 6 is a diagram of the fabric that will go on the front and back inside ends of the bassinet, this will include 4 stretched pieces on each corner for each piece, a total of 2 pieces.

FIG 7 is a diagram of the motor and it's connection.

FIG 8 is a diagram of the bottom base of the bassinet, where the shelves are inserted

into, the motor cover and the plug wire.

FIG. 9A is a diagram of the shelf that will hold the baby wipes.

FIG. 9B is a diagram of the shelf that will hold the diapers.

FIG. 9C is a diagram of the shelf that will hold the blankets.

FIG. 10A is a diagram of the small skinnier bottle holder.

FIG. 10B is a diagram of the small thicker bottle holder.

FIG. 10C is a diagram of the tall skinnier bottle holder.

FIG. 10D is a diagram of the tall thicker bottle holder.

FIG. 11 is a diagram of a metal piece that will support FIG. 1A, FIG. 1B, AND FIG. 1C.

FIG. 12 is a diagram front view of the main piece that will hold the bassinet together; the shape is what and how the bassinet will rock.

FIG. 13 is a diagram of the canopy that will be attached to FIG. 1A, FIG. 1B, AND FIG. 1C.

FIG. 14 is a diagram of the small wireless microphones, there will be 1 for each side.

FIG. 15 is a diagram of the control base of the bassinet.

FIG. 16 is a diagram of the remote control, main controls as FIG. 15.

FIG. 17 is a diagram of the entire bassinet, pointing out all the figures.

#### DETAILED DESCRIPTION OF THE DRAWINGS

FIG. 1A is a diagram side view of the mattress support of the bassinet, made of durable, sturdy plastic. The right side slot is where FIG. 14 will be inserted into, the

side open slot is where FIG. 13 will be inserted into. The front portion shows where FIG. 15 will be inserted, showing the open spaces where the wires will be inserted into. This piece will require screws on all sides to hold the pieces together.

FIG. 1B is a diagram top view of the mattress support of the bassinet, made of durable sturdy plastic. The side slots are disclosed on both sides, which is where FIG. 14 will be inserted into. The open slots are disclosed showing where FIG. 13 will be inserted into on both sides. The front portion shows where FIG. 15 will be inserted, showing the open spaces where the wires will be inserted into. There are four snaps in the middle that will attached to the four snaps shown in the center of FIG. 3. This piece will require screws on all sides to hold the pieces together.

FIG. 1C is a diagram of the bottom view of the mattress holder. The four squares on the corner shows where the mattress supporter will be inserted into FIG. 12A and FIG. 12B. The front square is showing the open spaces where the wires will be inserted into to be attached to FIG. 15. This portion of the bassinet is a connect piece that will be inserted on top of FIG. 11. This piece will require screws on all sides to hold the pieces together.

FIG. 2 is a diagram of the mattress which will be inserted into FIG. 1A, FIG. 1B, and FIG. 1C. This mattress is 2 inches thick and will be made of very sturdy vinyl, so the mattress will not slump after a period of time of baby laying on the mattress.

FIG. 3 is a diagram of the fabric that will be inserted into FIG. 1A, FIG. 1B, FIG. 1C. There are four snaps in the middle that will attached to the four snaps shown in FIG. 1B. The entire piece is made of a specific material, the middle portion in the middle of the snaps will be a thin white material. The fabric is shaped to go around FIG. 13, FIG. 14 and FIG. 15. On the left side of the fabric is four more snaps, which the right fabric hanging piece will wrap around and snap on the four snaps of the left side. This piece will be inserted first before FIG. 2 is placed in and the hanging right side will not be attached until FIG. 1A, FIG. 1B, and FIG. 1C and FIG. 11 is connected.

FIG. 4 is a diagram of two metal bars that is made light weight and durable. This piece must be inserted into each top piece of FIG. 5 and each top piece of FIG. 6. This will attach to the first holes of the bottom of the bassinet of FIG. 12A and FIG. 12B and will require screws on all sides to hold the pieces together.



FIG. 5 is a diagram of the curtain that will go on both sides of the bassinet, these material is made of fabric. On each side of the curtains, there will be hanging fabric that will be attached to FIG. 6 to hold the curtains in place. The square piece shown is the Velcro piece that will be on the opposite side to hook to FIG. 6. The open hole is where the button from FIG. 6 will be inserted into to keep the curtains in place. The curtains will slide based on the attachment of FIG. 4 and the attachments of FIG. 8 and will stay in place by the screwing of FIG. 4 and FIG. 8 to both sides of FIG. 12A and FIG. 12B.

FIG. 6 is a diagram is made of fabric along with 4 stretched fabric pieces on all four corners. The top stretched pieces will be attached to FIG. 4 to keep the pieces in place. The bottom stretched pieces will be attached to FIG. 8 to also keep the pieces in place. This piece will be screwed in with FIG. 4 and FIG. 8 to keep these pieces together on both front and end of FIG. 12A and FIG. 12B.

FIG. 7 is a diagram of the motor and the pieces attached to the motor. This piece is made of metal. The motor will be placed in the middle and will have a bar on each side along with a designer metal piece to be inserted into FIG. 12A and FIG. 12B. The designer metal piece will need to be screwed into FIG. 12A and FIG. 12B to stay in place. There are wholes on the left top side of the designer metal piece for the wires to be inserted into to go through FIG. 12A and FIG. 1A, FIG. 1B, and FIG. 1C to be attached to FIG. 15.

FIG. 8 is a diagram of the bottom base of the bassinet, made of sturdy, durable plastic that will hold the bottom of FIG. 5, FIG. 6, FIG. 12A and FIG. 12B and will be attached by screws. The sides of this piece comes apart to insert FIG. 5 and allowing it to slide back and forth, this piece will require screws on the inside of both sides of each piece. The top of this base also has the attachment slots for FIG. 9A, FIG. 9B, FIG. 9C, FIG. 10A, FIG. 10B, FIG. 10C and FIG. 10D in place. These slots are detachable for cleaning of those figures. The bottom of the base is where FIG. 7 will inserted into. Both sides will have a hole, so the metal bar piece and metal designer piece of FIG. 7 will be able to go through. This bottom piece will also hold the wiring of FIG. 15 in place, the connecting wires will go through FIG. 7 and through FIG. 12A and through FIG. 1A, FIG. 1B and FIG. 1C to be inserted into FIG. 15. The right bottom corner is where the plug wire will be placed inside a closed storage and will require screws to take it out to plug into the wall.

FIG. 9A is a diagram of a rectangular solid, but flexible plastic piece that will be inserted into the left slot of FIG. 8 and is made to hold the baby wipes, but can be used for other uses. This piece is detachable for washing purposes.

FIG. 9B is a diagram of a rectangular solid, but flexible plastic piece that will be inserted into the right slot of FIG. 8 and is made to hold the baby diapers, but can be used for other uses. This piece is detachable for washing purposes.

FIG. 9C is a diagram of a rectangular solid, but flexible plastic piece that will be inserted into the middle slot of FIG. 8 and is made to hold the baby blankets, but can be used for other uses. This piece is detachable for washing purposes.

FIG. 10A is a diagram of a rounded solid, but flexible plastic piece that will be inserted into the top left side of FIG. 8. This piece is smaller and is made for the 4 ounce thinner baby bottles. This piece is detachable for washing purposes.

FIG. 10B is a diagram of a rounded solid, but flexible plastic piece that will be inserted into the bottom right side of FIG. 8. This piece is smaller and is made for the 4 ounce thicker or wider and oddly shaped baby bottles. This piece is detachable for washing purposes.

FIG. 10C is a diagram of a rounded solid, but flexible plastic piece that will be inserted into the top right side of FIG. 8. This piece is taller and is made for the 8 ounce thinner baby bottles. This piece is detachable for washing purposes.

FIG. 10D is a diagram of a rounded solid, but flexible plastic piece that will be inserted into the top right side of FIG. 8. This piece is taller and is made for the 8 ounce thicker or wider and oddly shaped baby bottles. This piece is detachable for washing purposes.

FIG. 11 is a metal lightweight durable piece that will be attached to the top, bottom holes of FIG. 12A and FIG. 12B. This piece will hold FIG. 1A, FIG. 1B and FIG. 1C in place, the piece is shown in FIG. 1C. This piece requires screwing on all for sides on the outside of FIG. 12A and FIG. 12B. FIG. 3 will be wrapped around this piece once FIG. 1A, FIG. 1B, and FIG. 1C is attached.

FIG. 12A is a diagram which is made of sturdy, durable plastic, shown on the outside

view, which is the main part that holds the entire pieces of the bassinet together. The top portion of the bassinet will hold FIG. 1A, FIG. 1B, and FIG. 1C on top of FIG. 11.

FIG. 11 will be inserted into the top, bottom holes shown and will be screwed together on the outside. FIG. 1A, FIG. 1B, and FIG. 1C will be attached to the top holes of this piece and screwed in. This piece will also hold the FIG. 5 on the bottom right and left side and FIG. 4 will be attached to the bottom, top holes with the top attachments of FIG. 5 and FIG. 6, along with the bottom holes being attached to the bottom attachments of FIG. 5 and FIG. 6, which will be attached to FIG. 8.

FIG. 12B is a diagram which is made of sturdy, durable plastic, shown on the inside view, which is the main part that holds the entire pieces of the bassinet together. The top portion of the bassinet will hold FIG. 1A, FIG. 1B, FIG. 1C on top of FIG. 11. FIG. 11 will be inserted into the top, bottom holes shown and will be screwed together on the outside. FIG. 1A, FIG. 1B, and FIG. 1C will be attached to the top holes of this piece and screwed in. This piece will also hold the FIG. 5 on the bottom right and left side and FIG. 4 will be attached to the bottom, top holes with the top attachments of FIG. 5 and FIG. 6, along with the bottom holes being attached to the bottom attachments of FIG. 5 and FIG. 6, which will be attached to FIG. 8. This figure also shows where the motor designer piece will be installed.

FIG. 13 is a diagram of the canopy that will be made of fabric. The top portion will have ruffles and will have flexible, bendable plastic inside of this piece to come down to the end of the fabric, so the plastic piece will come out of the fabric and attached to shown FIG. 1A and FIG. 1B open slots. The canopy will also have two wires in the center of the top to create the movement to come up and down easily. The back part of the bassinet will be sown close together, so this will attached to the back of Shown FIG. 1A and FIG. 1B to keep in place. The unit will also have 3 hanging toys, showing toys are a moon, a star and a diamond, but the designs can change based off the fabric design used. The hanging toys will light up in different colors, controlled by battery in each piece and these colors will also be based off the fabric design used.

FIG. 14 is a diagram of the microphone to be inserted into shown FIG. 1A and FIG. 1B inserted designated spot. This piece is a wireless small piece that can pick up a voice, each piece can be taken off and turned off and on at any time.

FIG. 15 is the control base function of the entire bassinet, which the wiring will go

down through to FIG. 8, where the control wires are. The left side of the control functions features the timer, up to 20 minutes, includes 2 speakers and the slow medium and fast rocking motions of the bassinet. The right side of the control functions features the on and off button of the vibration, 2 speakers and the slow, medium and fast vibration motions. The middle of the control functions has the tape player on top, followed under is the tape turn over button, the record, the play, the rewind, the fast forward, the stop, the pause and the eject button. Below the tape functions is the classical music selections box. This box is numbered up to 10, 1-8 is the music and 9-10 is the soothing noises. On the left side of the music selection is a box that gives the option to play the music continuously, which is called continuous play, on the right side of the music selection is a box that gives the options to choose the selected choice of songs or sounds. Below from the classical music selection box has the down volume control on the left and the up volume control on the right. In the center is the selection button to choose whether the music will be played, the tape will be played or both will be off.

FIG. 16 is a diagram of the remote control that will come with the bassinet that will have the main control functions as FIG 15.

FIG. 17 is a diagram of the entire bassinet, the numbers shown are the numbers that represents each Figure listed.